



MATERIAL SAFETY DATA SHEET
SODIUM BICARBONATE

Format No.: F04-E(03-01)
Revision no.: 03
Effective date : 01/10/2016
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1) Identification of the substance / preparation and of the company / undertaking.

Product :- Sodium Bicarbonate
Chemical Name :- Sodium Bicarbonate
Alternative Name :- Bicarbonate of soda, baking soda, soda bicarb, sodium hydrogen bicarbonate
Chemical formula :- NaHCO₃
Company / undertaking identification company :- GHCL Limited, Sutrapada-362 275 , Dist - Gir Somnath, Gujarat (India)
Telephone No. :- 02876 - 263401, 263402, 263403
Fax No. :- 02876 - 263480, 263483

2) Composition / Information on ingredients

Sodium Carbonate

CAS-No. 144 - 55 - 8
EC No. 205 - 633 8

3) Hazards Identification

- A substance of low toxicity widely used in food and medicine.
- Treat as low toxicity dust.
- No significant health or environmental hazards associated with the material.

4) First aid measures

- Inhalation : - Remove to fresh air
- Skin Contact : - Wash skin with plenty of water
- If irritation occurs and persists seek medical advice
- Eye contact : - Irrigate eye thoroughly with eye wash solution or clean water for at least 10 minutes.
- Eyelids should be held away from the eyeball to ensure thorough rinsing.
- Obtain medical attention if necessary.
- Ingestion : - Do not induce vomiting
- Wash out mouth with water and give plenty of water to drink (at least 300 ml.)
- Obtain medical attention if necessary.

5) Fire-fighting measures

- Flash Point - Non-combustible
Extinguishing Media - All extinguishing products are allowed
Special Hazards - Non-combustible
Hazardous Decomposition Products (under fire conditions) - Not applicable

6) Accidental release measures

- Environmental Precautions : - Prevent discharges into the environment (rivers, water courses, sewers etc.)
Methods for clean up : - Clear up spillages by suitable means, avoiding dust formation
- Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal.
- Wash the spillage area with large quantities of water.

7) Handling and storage

- Handling : - Atmospheric levels should be controlled in compliance with the occupational exposure limit.
- Skin protection should be worn for regular and continuous use.
- Storage : - Store in a cool dry place (in humid conditions the product will absorb moisture from the atmosphere and this will eventually cause caking and loss of free flowing properties).
- Do not store adjacent to acids.
- Fire and Explosion Prevention : - Non-combustible

8) Exposure controls / personal protection

- Engineering Controls
- Provide adequate ventilation
- In the case of insufficient ventilation, wear suitable respiratory equipment
- Occupational Exposure Standards
- Not listed by HSE
- Nuisance Dust Recommended Limits: OES 10mg/m³ (total dust) (8hr TWA)
5mg/m³ (respirable dust) 8hr TWA).
- Respiratory Protection
- In the case of high dust levels wear suitable respiratory protective equipment, i.e.. Dust masks or respirator.
- Hand Protection
- Wear suitable chemical resistant protective gloves for frequent or prolonged operations.
- Eye Protection
- Suitable eye / take protection.
- Skin and Body Protection
- Protective clothing is required, overalls as a minimum.



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9) Physical and Chemical properties

Appearance	Crystalline Powder	Oxidising Properties	None known
Colour	White	Vapour Pressure	Not applicable
Odour	Odourless	Specific Gravity 2.22	2.22
Melting Point	Decomposes	Bulk Density	980 kg/m3
Flash Point	Not applicable	Solubility in water	9.5% w/w @25°C
Flammability	Not applicable	Solubility in other solvents	Not applicable
Auto Ignition Temp.	Not applicable	pH value	8.3 (1%w/w solution)
Explosive properties	None known	Partition Coefficient (n-octanol/water)	Not applicable
Explosion Limits	Not applicable	Relative vapour density (air-1)	Not applicable

10) Stability and reactivity

Stability - Stable under recommended storage & handling conditions (refer section 7).

Condition to be avoided:

- Contact with acids unless under controlled conditions
- Heating the product above 60°C
- Humidity and moisture can cause caking of product.

Materials to avoid

- Acids

Hazardous decomposition products

- Not applicable

11) Toxicological information

Acute toxicity		
- Oral LD 50, rat	:-	4220 mg/kg
- Inhalation	:-	Dust may cause discomfort
Eye Irritation	:-	Dust may cause discomfort
Skin Irritation	:-	No known effect
Long Term Exposure	:-	No known effect

12) Ecological information

Acute Ecotoxicity		
- Fish, Lepomis macrochiru:	:-	96hr-LC50 : 8600mg/l
- Daphnia sp.	:-	48hr-LC50 : 2350mg/l
Bio - degradability		
- Aerobic / Anaerobic degradation		Not applicable (inorganic compound)

13) Disposal Considerations

Product :

- Must be disposed in accordance with local, state or national regulations
- Do not dispose of directly with acids
- Dissolve in water and neutralise with an acid

Packaging :

- Must be disposed in accordance with local, state or national regulations
- Bags are marked with **Recyclable logo**. Wherever possible recycling is preferred to disposal or incineration.
- Clean container with water. Dispose of rinse water in accordance with local and national guidelines

14) Transport Information

- Not classified as hazardous for transport.			
* Land Transport			
ADS Class	Not restricted	ADR item number	Not relevant
RID Class	Not restricted	RID item number	Not relevant
TREM - Card	Not relevant	UN Number	None
Hazard Identification number	None	Substance Identification No.	None
Proper shipping name	None		
* Sea Transport			
IMO / IMDG	Not regulated	Class	Not relevant
Packing group	None	UN Number	None
EMS	Not relevant	MFAG	Not relevant
Marine Pollutant	No		
Proper shipping name	Not relevant		
* Air Transport			
ICAO/IATA-DGR Class	Not regulated	UN number	None
Proper shipping name	None	Packing number	None

15) Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulations	
Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
National Legislation	
Storage Class	10-13

16) Other information

Provide adequate information, instruction and training for operators.